

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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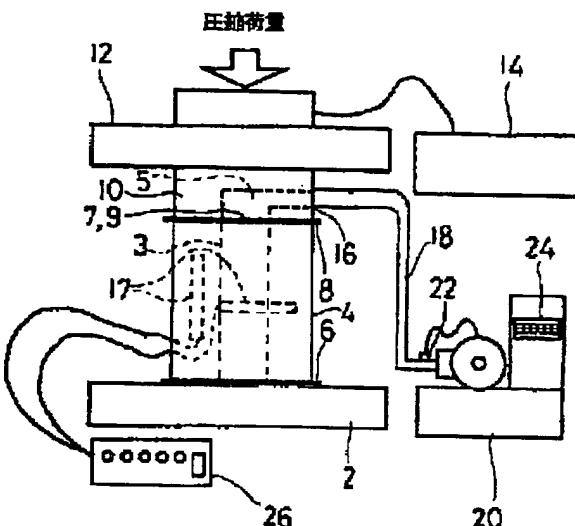
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APPLICANT : KANTO AUTO WORKS LTD;

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TITLE : TEST APPARATUS FOR EVALUATING DURABILITY OF CONCRETE, AND DURABILITY EVALUATING METHOD OF CONCRETE



ABSTRACT : PROBLEM TO BE SOLVED: To make evaluable the durability by applying the loads of compression stress and tensile stress in three axial directions at the same time to perform a strength and acceleration test.

SOLUTION: A compression load is applied to the concrete test sample 4 having a thick-walled cylindrical shape on a base stand 2 by a compression test device 12 through a loading jig 10 and, at the same time, oil pressure repeatedly pressurizing and decompressing from a hydraulic unit 20 is applied to the through-hole 3 of the test sample 4 from the inlet port 16 of the loading jig 10. Constant compression load is held by a pressure feedback control unit 14 without being affected by oil pressure to be applied. When tensile stress acts on the test sample 4 in the circumferential direction thereof by the inner pressure applied to the through-hole 3 of the test sample 4, compression stress acts on the test sample in the radial direction thereof and also acts thereon from the upper and lower end surfaces of the test sample 4 in the axial direction thereof. Therefore, stresses in three axial directions can be freely set to be applied to the test sample 4.

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